

TO ALL TO WHOM THESE PRESENTS SHAME COME;

Coker's Pedigreed Seed Company

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT (S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF LIGHTER THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING THE IN PRODUCING A HYBRID OR DIFFERENT LETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT

SOYBEAN

'Coker 627'

In Institution Waterest, I have hereunto set my hand and caused the seal of the Plant Bariety Protection Office to be affixed at the City of Washington, v. c. this 29th day of May in the year of our Lord one thousand nine hundred and eighty-seven.

Vieland E.

Secretary of Agriculture

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Plant Variety Protection Office Sacionalisms Invited

APPROVAL EXPIRES 4-30-85

U.S. DEPARTMENT OF AGRICULTU	FORM APPROVED: OMB NO. 0581-0055			
APPLICATION FOR PLANT VARIETY PROTECTION	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued			
(Instructions on reverse)	(7 U.S.C. 2426).			
1. NAME OF APPLICANTIS) OD CREED COKER'S PEDIGREED SEED MIS	2. TEMPORARY DESIGNATION	3. VARIETY NAME		
COMPANY		Coker 627		
4. ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)	5. PHONE (Include area code)	FOR OFFICIAL USE ONLY		
P.O. Box 1867		PVPO NUMBER		
Hartsville, S.C. 29550	803-332-7531	8700001		
Hartsville, S.C. 29550 6. GENUS AND SPECIES NAME 7. FAMILY NA	ME (Botanical)	DATE		
Glycine max Le	guminosae	October 3, 1986		
		AMOUNT FOR FILING		
	DATE OF DETERMINATION	19000		
Soybean	March 1984	DATE DESTEMBLE 29, 1986 AMOUNT FOR CERTIFICATE		
		& September 29, 1986		
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM partnership, association, etc.)	OF ORGANIZATION (Corporation,			
	and the state of the	₩ \$ 200 ⁶⁰		
Partnership		March 20,1987		
11. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION		
P.O. Box 1867 Hartsville, S.C. 2950 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMI a. Exhibit A, Origin and Breeding History of the Variety (See b. Exhibit B, Novelty Statement. c. Exhibit C, Objective Description of Variety (Request form d. Exhibit D, Additional Description of Variety. c. Exhibit E, Statement of the Basis of Applicant's Ownershi 15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VAR SEED? (See Section 83(a) of the Plant Variety Protection Act.)	TTED Section 52 of the Plant Variety Pro from Plant Variety Protection Office P. IETY BE SOLD BY VARIETY NAME Yes (If "Yes," answer	;e.)		
LIMITED AS TO NUMBER OF GENERATIONS?	BEYOND BREEDER SEE	ED7		
Yes No	Foundation	Registered Certified		
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECT 19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE		☐ No.		
		Yes (If "Yes," give name of countries and dates)		
United States, 1986				
20. The applicant(s) declare(s) that a viable sample of basic seed	la of this variate will be furnished			
plenished upon request in accordance with such regulations	as may be applicable.			
The undersigned applicant(s) is (are) the owner(s) of this se distinct, uniform, and stable as required in Section 41, and Variety Protection Act.	is entitled to protection under th	e provisions of Section 42 of the Flanc		
Applicant(s) is (are) informed that false representation here	in can jeopardize protection and	result in penalties.		
SIGNATURE OF APPLICANT		DATE		
President,	CR SEEDS	September 26, 1986		
SIGNATURE OF APPLICANT	VV	DATE		
		1		

14a. EXHIBIT A, Origin and Breeding History
COKER 627 SOYBEANS

Year	Gen.	Activity
1974	cross	D80-3185 x (F ₁ : Coker 69-119 x D80-3185) D80-3185 later named "Centennial"
1975	\mathtt{F}_1	Grown in field
1976	F ₂	Rows 145-146 in field
1977	F ₃ .	Rows 78-79 in field
1978	F ₄	Rows 78-79 in field. Plants selected.
1979	F ₅	Plant row 752
1980	F ₆	Replicated yield trials; Assigned breeding number Coker 80-817.
1981	F ₇	Replicated yield trials, 2 locations.
1982	F ₈	Further company, public agency testing
1983	F ₉	Further testing, Breeder seed produced
1984	F ₁₀	Named Coker 627, Foundation seed produced
1985	F ₁₁	Certified seed produced
1986	F ₁₂	Certified seed sold

Variants:

May rarely contain a white flowered offtype with a black hilum, or a gray pubescent plant with an imperfect black hilum, with frequencies around 1/100,000

Evidence of Stability: After observing plants and seed for four generations since the line was isolated, plant and seed characters have been uniform.

14b. EXHIBIT B, NOVELTY STATEMENT

COKER 627 SOYBEANS

Coker 627 is most similar to Centennial. It differs from Centennial in that Coker 627 is in Maturity Group VII whereas Centennial is in Maturity Group VI. Coker 627 has dull seed coats and Centennial has shiny seed coats.

EXHIBIT C

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, MEAT, GRAIN & SEED DIVISION
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION VARIETY NAME Coker 627
CR SEEDS	We the second of
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Co. P.O. Box 1867	1
900 Darlington Hwy.	PVPO NUMBER
Hartsville, S.C. 29550	8700001
	rariety in the features described below. When the number of significant digits d, place a zero in the first box when number is 9 or less (e.g., 0 9).
1. SEED SHAPE:	
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)	2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2)
3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)	
1 1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other (Specify)
3. SEED CO'AT LUSTER: (Mature Hand Shelled Seed)	
1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Neb	ssoy'; 'Gasoy 17')
4. SEED SIZE: (Mature Seed)	agentaria de la calque de Catago (1916) de la catago de la Baselando en la catago de la cat
1 6 Grams per 100 seeds	
5, HILUM COLOR: (Mature Seed)	
6 1 = Buff 2= Yellow 3 = Brown	4 = Gray 5 = Imperfect Black 6 = Black 7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)	
1 1 = Yellow 2 = Green	
7. SEED PROTEIN PEROXIDASE ACTIVITY:	
1 = Low 2 = High	
to the time of the second second to the second second to the second second second to the second second second	
8. SEED PROTEIN ELECTROPHORETIC BAND:	
1 = Type A (SP1 ^a) 2 = Type B (SP1 ^b)	
9, HYPOCOTYL COLOR:	
1 = Green only ('Evans'; 'Davis') 2 = Green wi 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71' 4 = Dark Purple extending to unifoliate leaves ('Hodgson'	
IO. LEAFLET SHAPE:	
3 1 = Lanceolate 2 = Oval 3 = Ovate	e 4 = Other (Specify)

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11. LEAF	LET SIZE:			8700001
2	1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium ('Corso	y 79'; 'Gasoy 17'}	
12. LEAF	COLOR:			
	1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	2 = Medium Green ('Corsoy 79'; 'Braxton')	
13. FLOW	ER COLOR:			er Mangertaer forgetigen og en i 1975. Formalister
[2]	1 = White 2 = Purple	3 = White with purple t	hroat	
14. POD C	OLOR:			
	1 - T an 2 - Brown	3 ≈ Bfack		
15. PLAN1	PUBESCENCE COLOR:			
2	1 = Gray 2 = Brown (Tawny)			
16. PLANT	TYPES:			
. a	1 = Slender ('Essex'; 'Amsoy 71')	2 = Intermediate ('A	.mcor'; 'Brexton')	
لگا	3 = Bushy ('Gnome'; 'Govan')			
18. MATUF	1 = 000	4 = I	6=1II 7=1\	/ 8 • V
19. DISEAS	E REACTION: (Enter 0 = Not Tested; 1 = S	Susceptible; 2 = Resistant)		
BACTI	FRIAL DISEASES:			
2	Bacterial Pustule (Xanthomonas phaseoli va	ar. sojensis)	eren and medition of the second	
[0]	Bacterial Blight (Pseudomonas glycinea)			
	Wildfire (Pseudomonas tabaci)			
لنڪا FUNGA	L DISEASES:			
	Brown Spot (Septoria glycines)			
	Frogeye Leaf Spot (Cercospora sojina)			
	. ത	ce 3 0 Race 4	0 Race 5	Other (Specify)
	Target Spot (Corynespora cassiicola)	- Tues T		
	Downy Mildew <i>(Peronospora trifoliorum</i> var	r. manshurica)		U. RECEIVED
<u> </u>	Powdery Mildew (Microsphaera diffusa)	The second secon		J SERO MS F
ا المنا	Brown Stem Rot (Cephalosporium gregatum)	J	<u></u>	SEP 29 1986 A FID
	Stem Canker (Diaporthe phaseolorum var. ca		sit D	Processon of The
_ ഥ `	The second production and the second	· Dee Exill	AL D	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

FORM LMGS-470-57 (2-82)

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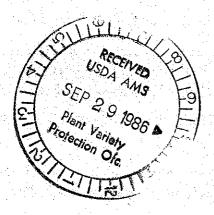
19. DISEASE REACTION	N: (Enter 0 = Not Tested; 1 = Susceptible; 2 =	Resistant) (Continued)	8700001				
FUNGAL DISEAS	ES: (Continued)		870001				
O Pod and Ster	m Blight (Diaporthe phaseolorum var; sojae)		na nga managatan na makang tabupat ng Palama. Ang makang mangantakan ang minakang mga mga mga mga mga mga mga mga mga mg				
0 Purple Seed	Stain (Cercospora kikuchii)		andra de la companya de la companya La companya de la co				
0 Rhizoctonia	Root Rot (Rhizoctonia solani)						
Phytophthol	a Rot (Phytophthora megasperma var. sojae)		ika di kalendaran birangan di iking perbebagai di di iking salah bilangan. Birangan perbebagai di iking di iking perbebagai di iking perbebagai di iking perbebagai di iking perbebagai d				
0 Race 1	0 Race 2 0 Race 3 0	Race 4 0 Race 5	∩ Race 6 ∩ Race 7				
0 Race 8	O Race 9 Other (Specify)						
VIRAL DISEASES							
0 Bud Blight (Tobacco Ringspot Virus)						
্র	iic (Bean Yellow Mosaic Virus)						
<u> </u>	aic (Cowpea Chlorotic Virus)						
	Bean Pod Mottle Virus)						
	(Soybean Mosaic Virus)						
· L-iJ							
NEMATODE DISE							
	t Nematode (Heterodera glycines)						
2 Race 1	0 Race 2 2 Race 3 0	그런 회에의 집에 작가 하다면 하시다. 시작	Specify)				
	ode (Hoplolaimus Colombus) : See Ext						
2 Southern Root Knot Nematode (Meloidogyne incognita)							
O Northern Root Knot Nematode (Meloidogyne Hapla)							
1 Peanut Root	Knot Nematode (Meloidogyne arenaria)						
Reniform Ne	matode (Rotylenchulus reniformis)						
OTHER DISE	ASE NOT ON FORM (Specify):						
	SPONSES: (Enter 0 = Not Tested; 1 = Suscept	tible; 2 = Resistant)					
O Iron Chlorosis	s on Calcareous Soil	rijes tok kalender (j. 1888)					
O Other (Specif	//						
	(Enter 0 = Not Tested; 1 = Susceptible; 2 = Re	sistant)					
Mexican Bean	Beetle (Epilachna varivestis)		그리는 교육 이 사람들에 그리고 있는데 현실 등록 하는 것은데 4. 아무리는 사람들에게 그렇게 하나는 기계를 받는 것을 통해를				
O Potato Leaf H	opper (Empoasca fabae)		garangan kangan palaman kangan kangan kangan di kangan kangan kangan kangan kangan kangan kangan kangan kangan Kangan kangan kanga				
Other (Specify	1						
2. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.							
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY				
Plant Shape	Centennial	Seed Coat Luster	Hampton 266-A				
Leaf Shape	Centennial	Seed Size					
Leaf Color	Centennial	Seed Shape					
Leaf Size	Centennial	Seedling Pigmentation	Centennial				
			6				

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF PLANT LODGING MATURITY SCORE	CM PLANT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/	
		SCORE HEI	HEIGHT	EIGHT CM Width	CM Length	% Protein	% Oil	SEEDS	POD
Coker 627 Submitted	149	2.3	99	7.8	13.0				
Centennial Name of Similar Variety	145	2.6	91	8.1	13.1				

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.



14d. EXHIBIT D, Additional Description of Variety

COKER 627 SOYBEANS

Coker 627 is listed as resistant to stem canker and Lance nematode in Exhibit C. The Lance nematode resistance is only a moderate grade of resistance, not a high type. Stem canker readings at most locations have shown Coker 627 to be moderately resistant, but recent readings at Beaumont, Texas, show a susceptible reaction. It is not now known if a new race is prevalent, or extreme pressure has caused the moderate resistance to be insufficient, or to break down at Beaumont.

14e. EXHIBIT E, Statement of the Basis of Applicant's
Ownership

COKER 627 SOYBEANS

CR Seeds is the sole, original and first breeder of the 'Coker 627' variety of soybeans for which it solicits a Certificate of Protection.